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Biology And Chemistry Of Jerusalem Artichoke Helianthus Tuberosus L

Majid Hosseini



Biology And Chemistry Of Jerusalem Artichoke Helianthus Tuberosus L:

Biology and Chemistry of Jerusalem Artichoke Stanley J. Kays, Stephen F. Nottingham, 2007-08-13 A unique plant on many levels the distinctive properties of the Jerusalem artichoke or *Helianthus tuberosus* L present novel answers to some of today's most pressing problems The potential of Jerusalem artichoke as a source for inulin a fructose polymer that may provide dietary health benefits for obesity diabetes and several other health is

Jerusalem Artichoke Food Science and Technology Barbara Sawicka, Barbara Krochmal-Marczak, 2022-07-04 This is the first book to explore the science underlying the Jerusalem artichoke which is also known as *Helianthus tuberosus* L and it is attracting increasing interest among food scientists and professionals worldwide Due to a wide perspective for the production of inulin due to its high economic and ecological importance the development of technologies for isolating and processing tuberous sunflower raw materials using environmentally friendly technologies green chemistry and white biotechnology and the global production of inulin shows an increasing tendency Here we focus on the latest technological achievements related to the use of inulin in the food processing In this book readers will find full explanation of the conceptual aspects and the latest research results on a wide range of topics including the relevant characteristics and applications from various fields Written by leading scientists in the field the book will be a valuable resource for students and researchers in the fields of food chemistry nutritional science physiology and bioengineers as well as for professionals in the food industry

North American Cornucopia Ernest Small, 2013-09-23 Many North American plants have characteristics that are especially promising as candidates for expanding our food supply and generating new economically competitive crops This book is an informative analysis of the top 100 indigenous food plants of North America focusing on those species that have achieved commercial success or have substantial market potential The book's user friendly format provides concise information on each plant It examines the geography and ecology history economic and social importance food and industrial uses and the economic future of each crop

Roots, Tubers, and Bulb Crop Wastes: Management by Biorefinery Approaches Ramesh C Ray, 2024-02-27 This edited book brings forth comprehensive information on the bioprocessing and biovalorization of root i e cassava sweet potato yams and aroids tuber i e potato carrot turnip artichoke and beet root and bulb i e onion and garlic crop wastes into various products and platform chemicals in a biorefinery approach The non edible portion of roots tubers and bulb crops after processing waste such as peels skins pulps rejects and unmarketable tubers account for about 20 40% of the total weight of the fresh produce Tropical tuber crops such as cassava yams aroids and sweet potato generate bagasse the byproduct of the starch processing industry which contains about 30 50% starch and fibrous materials on a dry weight basis Similarly the husk is the leading waste from onion and garlic processing The amount of waste and byproducts of potato industry is estimated to be around 12 20% of their total production These wastes pose increasing disposal and potentially severe pollution problems and represent a loss of valuable biomass and nutrients Roots tubers and bulb wastes usually have

a composition of sugar starch proteins phenolic phytochemicals fibers and minerals Therefore they should not be considered as wastes but raw materials for other industrial processes in the biorefinery approach These wastes provide conditions amenable for the growth of microorganisms and opens up great opportunities for their reuse in fermentation processes to develop value added bioproducts such as enzymes single cell proteins bio absorbents phenolic bioactive compounds aroma and flavor compounds organic acids and biofuels This book fills the gap in literature about the processes and by products The book is composed of 16 chapters deep diving into valorization and bioprocessing of a range of tuber crop waste The book explores these processes in 11 different crops and highlights the life cycle assessment as well as highlights the opportunities about commercialization of technologies used in bioprocessing and bio valorization of root crop waste The processes explained in the book are rooted in the principles of circular economy This book is of interest to teachers researchers environmentalists bio based industrialist and policymakers

The Circular Bioeconomy Małgorzata Pink, Agnieszka Józefowska, 2025-01-13 Founded on distinct principles to the fossil fuel based linear economy the sustainable circular bioeconomy requires different social values and institutions and a better understanding of the complexity of the production process A circular bioeconomy provides a framework for using renewable natural capital to manage land biodiversity food and other industries with the aim of improving social well being and environmental safety The contributors to this book analyse the evolution of the economic system towards the circular economy and bioeconomy and its place in the paradigm of sustainable development They look at institutions and their importance for the bioeconomy and examine the question of the behaviour of market entities enterprises and consumers as well as the meaning of social and environmental responsibility for these entities They also discuss the issues of the product itself the process of creation production processing and the quality of the product including its environmental impact throughout its life cycle The authors also refer to the potential pitfalls and threats related to the implementation of the bioeconomy in both socio economic and environmental contexts Individual processes and phenomena are illustrated with case studies and the authors own research The book deliberately fosters an interdisciplinary approach founded on cooperation between economists management specialists agronomists biotechnologists chemists and soil scientists who together underline the complexity and importance of the interdependence of the economy society and the natural environment The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

Plant Microbe Interaction 2017 Jan Schirawski, Michael H. Perlin, 2018-11-14 This book is a printed edition of the Special Issue Plant Microbe Interaction 2017 that was published in IJMS

Studies in Natural Products Chemistry
Atta-ur Rahman, 2022-09-27 Natural products in the plant and animal kingdom offer a huge diversity of chemical structures that are the result of biosynthetic processes that have been modulated over the millennia through genetic effects With the rapid developments in spectroscopic techniques and accompanying advances in high throughput screening techniques it has

become possible to isolate and then determine the structures and biological activity of natural products rapidly thus opening up exciting opportunities in the field of new drug development to the pharmaceutical industry Studies in Natural Products Chemistry covers the synthesis or testing and recording of the medicinal properties of natural products providing cutting edge accounts of the fascinating developments in the isolation structure elucidation synthesis biosynthesis and pharmacology of a diverse array of bioactive natural products Focuses on the chemistry of bioactive natural products Contains contributions by leading authorities in the field Presents sources of new pharmacophores Advances in Feedstock Conversion

Technologies for Alternative Fuels and Bioproducts Majid Hosseini, 2019-02-23 Advances in Feedstock Conversion Technologies for Alternative Fuels and Bioproducts New Technologies Challenges and Opportunities highlights the novel applications of and new methodologies for the advancement of biological biochemical thermochemical and chemical conversion systems that are required for biofuels production The book addresses the environmental impact of value added bio products and agricultural modernization along with the risk assessment of industrial scaling The book also stresses the urgency in finding creative efficient and sustainable solutions for environmentally conscious biofuels while underlining pertinent technical environmental economic regulatory and social issues Users will find a basis for technology assessments current research capability progress and advances as well as the challenges associated with biofuels at an industrial scale with insights towards forthcoming developments in the industry Presents a thorough overview of new discoveries in biofuels research and the inherent challenges associated with scale up Highlights the novel applications and advancements for biological biochemical thermochemical and chemical conversion systems that are required for biofuels production Evaluates risk management concerns addressing the environmental impact of value added bio products and agricultural modernization and the risk assessment of industrial scaling Invasive Alien Species Thammineni Pullaiah, Michael R. Ielmini, 2021-04-21

Jedes Jahr breiten sich invasive gebietsfremde Arten in neue Kosysteme aus Die von den Eindringlingen verursachten Auswirkungen können sich in kürzester Zeit bemerkbar machen und verheerend sein Das Thema der invasiven gebietsfremden Arten ist umfassend komplex und auf verschiedenen Ebenen von globaler Bedeutung Verschieft wird es durch die Globalisierung der Weltwirtschaft und den zunehmenden Handel durch den die natürlichen Barrieren für den Transfer von Arten durchbrochen werden Invasive gebietsfremde Arten bedrohen die weltweite Nahrungsmittelversorgung die Qualität und Verfügbarkeit von Trinkwasser sowie die Stromproduktion und Versorgung Zusammen mit den zusätzlichen Risiken durch den globalen Klimawandel ist die weltweite Homogenisierung von Pflanzen Tieren und Mikroben ein wesentlicher Faktor für den sich verschlechternden Gesundheitszustand der Kosysteme und die nachlassenden Kosystemdienstleistungen überall auf der Welt Um dieser Entwicklung entgegenzuwirken besteht die dringende Notwendigkeit einer einheitlichen Ausrichtung von Regierungen Kulturen und Programmen und einer besseren grenzüberschreitenden Koordination Nur so lassen sich die vielfältigen Bedrohungen durch invasive gebietsfremde Arten für die

Umwelt die Wirtschaft und die Gesundheit von Pflanzen und Tieren sowie insbesondere die menschliche Gesundheit effektiv bekämpfen Dieses vierbändige Werk ist das erste das einen umfassenden Satz nützlicher Materialien zu den zentralen Themen bereitstellt um die gesamte globale Bedrohung durch invasive gebietsfremde Arten sowie die vielfältigen Probleme in verschiedenen Teilen der Welt deutlich zu machen und es enthält Material in dem potenziell replizierbare Lösungen zur Überwindung dieser Bedrohungen aufgezeigt werden Das Werk betont die Bedrohung durch invasive gebietsfremde Arten auch im Sinne eines globalen Aufrufs zum Handeln Invasive Arten kennen keine Grenzen Daher hoffen wir dass wir durch die Zusammenstellung von Material das unterschiedliche wissenschaftliche und gesellschaftliche Standpunkte aus aller Welt berücksichtigt sowie durch die Vermittlung von Erkenntnissen und Beispielen zu einer Vielzahl damit zusammenhängender Themen das globale Bewusstsein stärken und einheitliche nationale Reaktionen auf die Bedrohung durch invasive gebietsfremde Arten fördern können

Plant Developmental Biology - Biotechnological Perspectives Eng Chong Pua, Michael R. Davey, 2009-10-29 Many exciting discoveries in recent decades have contributed new knowledge to our understanding of the mechanisms that regulate various stages of plant growth and development Such information coupled with advances in cell and molecular biology is fundamental to crop improvement using biotechnological approaches Two volumes constitute the present work The first comprising 22 chapters commences with introductions relating to gene regulatory models for plant development and crop improvement particularly the use of Arabidopsis as a model plant These chapters are followed by specific topics that focus on different developmental aspects associated with vegetative and reproductive phases of the life cycle of a plant Six chapters discuss vegetative growth and development Their contents consider topics such as shoot branching bud dormancy and growth the development of roots nodules and tubers and senescence The reproductive phase of plant development is in 14 chapters that present topics such as floral organ initiation and the regulation of flowering the development of male and female gametes pollen germination and tube growth fertilization fruit development and ripening seed development dormancy germination and apomixis Male sterility and self incompatibility are also discussed

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